



Trip2 – PMR IP Gateway Unit

Key Features

- 4 wire 600 ohm interface
- RS232 serial interface
- 8 logic inputs/outputs
- 10/100 BaseT network connection
- Remote configuration & management
- Local configuration
- System monitoring



In Brief

The TR*ip* is a purpose built device designed specifically for the PMR system suppliers and PAMR Trunk Radio operators or service providers. Using data and voice convergence technology, the TR*ip* replaces the permanent leased private circuit with a connection over either an internal IP network or the internet using voice over IP (VOIP) protocols.

The TR*ip* provides the client with a virtual four wire 600 ohm circuit and RS232 connection between any two locations with an IP connection.

Facilities

The Audio interface provided by the TR*ip* will take a single analogue transmit and receive audio path (four wire, 600 Ohm) with a bandwidth between 300Hz and 3400Hz, and convert this to digital signalling using its internal codecs.

Each TR*ip* unit will provide a remote terminal server capability through its remote RS232 port. This will provide a direct RS232 path across the IP network. The connection between two units will be on a point-to-point basis, thus being completely transparent.

The main advantage of the TR*ip* is the considerable saving to be made from not using expensive leased private circuits. As the connection between two TR*ip* units is virtual the IP infrastructure will automatically find the best possible route.

Continuous checking of the connection status gives an instant alarm should there be a failure in any part of the system. Once an alarm has occurred, the TR*ip* can be programmed to automatically send an email to a designated email address indicating that a fault has occurred and the nature of the fault.

For security of the virtual connection, a remote TR*ip* Gateway will only allow a connection from addresses set in in either its main or back up IP address configuration parameters.

User Configurable

In common with all AWCSL products the TR*ip* is fully user programmable, locally via the configuration port or remotely using a Telnet connection, a PC based configuration tool is also available from our web site.

Options

To facilitate rack mounting, a 3u shelf, which can accommodate up to 16 TR*ip* units, is available.

The TR*ip* is also available with an integral signalling module giving the system designer the option of decoding over the air signalling at the base station and relaying the messages over the IP link as a virtual serial connection. For more information on the TR*ip* with signalling, see the TR*ip*-S brochure.

To provide remote control of legacy radio equipment the TR*ip* unit has been designed to function with all existing AWCSL Desktop Remote Controllers and Switch Systems.

Connectors

RJ45	Line connector and remote RS232 serial port
RJ45	Ethernet connector
RJ11	RS232 Local configuration
9 way D-type	Logic inputs/outputs
2 pin power socket	separate power supply input

Specification

Dimensions	106mm(w), 128mm(d) & 34mm(h)
Power Supply	12v dc @ 500mA (power supply provided with unit)
I/O	Qty 8 User Configurable pins Outputs: Open collector Inputs: Internal pull up
Line	-2 to -20dBm 4 wire 600ohms (nominally set to -10 dBm)
Audio Codecs	G.711 at 64 kbps G.726 at 40 kbps G.726 at 32 kbps G.726 at 24 kbps G.726 at 16 kbps Speex at 8 kbps
Case	Rugged aluminium extrusion

In the interests of continued development, AWCSL reserves the right to change this specification without notice.

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